



**CALIFORNIA DEPARTMENT OF CONSERVATION
CALIFORNIA GEOLOGICAL SURVEY
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PRELIMINARY REPORT RELEASE

PRELIMINARY REPORT 25

The ShakeOut Scenario

By Lucile M. Jones, Richard Bernknopf, Dale Cox, James Goltz, Kenneth Hudnut, Dennis Mileti, Suzanne Perry, Daniel Ponti, Michael Reichle, Hope Seligson, Kimberley Shoaf, Jerry Treiman, and Anne Wein

The question is not if but when southern California will be hit by a major earthquake— one so damaging that it will permanently change lives and livelihoods in the region. How severe the changes will be depends on the actions that individuals, schools, businesses, organizations, communities, and governments take to get ready. To help prepare for this event, a multidisciplinary team of scientists from the U.S. Geological Survey (USGS) the California Geological Survey, Southern California Earthquake Center, and nearly 200 other partners in government, academia, emergency response, and industry, working to understand the long-term impacts of an enormous earthquake on the complicated social and economic interactions that sustain southern California society. The resulting ShakeOut Scenario fundamentally changes the way that earthquake scenarios are done, providing an unprecedented level of detail on earth science, engineering, emergency response and social and economic effects of this potential earthquake. This project, the ShakeOut Scenario, has applied the best current scientific understanding to identify what can be done now to avoid an earthquake catastrophe.

The earthquake is described in two forms:

CGS Special Report 207, also published as USGS Circular 1324 is a narrative of the earthquake, which describes more effectively than any statistics, what this magnitude 7.8 earthquake would be like in southern California if no additional actions are taken for mitigation or preparedness,

CGS Preliminary Report 25, also published as USGS Open File Report 2008-1150 is the full technical description of the earthquake and its effects.

Preliminary Report 25 is available as a free download from the California Geological Survey Website or as a hard copy for:

Price.....\$50.00

Shipping and handling.....\$ 8.00

(Check, money order or credit card number must be included with order)

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